BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of work: Detailed Estimate for the Work of Improvements to 3 Burial Grounds in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.

							Estimate Cost Rs.		3000000.00
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRB 2-1.1: Earth work in surface excavation in **ordinary soil** for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1, **No. 5/ Item No. 2.1 / PWD SR 2013-14**	Cum							
			1	20.00	9.00	0.20	**36.00**	124.02	**4465.00**
	Basic Rate	117.00							
	Area Weightage @ 6%	7.02							
	Total	**124.02**							
2	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, **No. 5 / Item No. 2.4 / PWD SR 2013-14**	Cum							
	Column		4	1.50	1.50	1.50	13.50		
	Wall		1	19.08	0.90	0.90	15.45		
	Tank Flatform		1	1.50	1.50	1.00	2.25		
							31.20		
	Deduct for Column Portion		4	1.50	0.90	0.90	**-4.86**		
							26.34	223.66	**5892.00**
	Basic Rate	211.00							
	Area Weightage @ 6%	12.66							
	Total	**223.66**							
3	KSRB 2.8 : Providing and filling in foundation with granite/trap broken metal 100mm, and down size, with approved sand including had packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification. No. KBS, **No. 6 / Item No. 2.15 / PWD SR 2013-14**	Cum							
	Walls		1	19.08	0.90	0.20	3.43		
			1	0.60	0.60	1.00	0.36		
							3.79		
	Deduction		4	1.50	0.90	0.20	-1.08		
							2.71	1743.70	**4733.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	1645.00							
	Area Weightage @ 6%	98.70							
	Total	**1743.70**							
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix M7.5 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2013-14**	Cum							
	Columns		4	1.50	1.50	0.15	1.35		
	Wall		1	19.08	0.90	0.15	2.58		
			1	1.50	1.50	0.15	0.34		
	Front		1	10.00	5.00	0.15	7.50		
	For Flooring								
			1	4.54	4.54	0.15	3.09		
			1	5.00	1.50	0.15	1.13		
			3	5.00	1.50	0.15	3.38		
							19.36		
	Deduction		4	1.50	0.90	0.15	-0.81		
							18.55	4211.38	**78100.00**
	Basic Rate	3973.00							
	Area Weightage @ 6%	238.38							
	Total	**4211.38**							
5	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 25 / Item No. 5.6 / PWD SR 2013-14**	Cum							
	Building Centre Line		1	19.08	0.75	0.60	8.59		
	Below Ground Level for Tank Flatform		2	1.50	0.45	1.00	1.35		
			2	0.60	0.45	1.00	0.54		
							10.48		
	Deduction		12	0.45	0.20	0.45	-0.49		
							9.99	3484.22	**34807.00**
	Basic Rate	3287.00							
	Area Weightage @ 6%	197.22							
	Total	**3484.22**							
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 26 / Item No. 5.9 / PWD SR 2013-14**	Cum							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Building Centre Line		1	19.08	0.45	0.45	3.86		
	Below Ground Level for Tank Flatform		2	1.50	0.45	1.00	1.35		
			2	0.60	0.45	1.00	0.54		
							5.75		
	Deduction		12	0.45	0.20	0.40	-0.43		
							5.32	5208.84	**27720.00**
	Basic Rate	4914.00							
	Area Weightage @ 6%	294.84							
	Total	**5208.84**							
7	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. 13 / Item No. 4.11 / PWD SR 2013-14**	Cum								
	Column Footing		4	1.50	1.50	0.60	5.40		
	Up to Plinth		4	0.45	0.20	1.35	0.49		
	Plinth to Roof		4	0.45	0.20	4.00	1.44		
	Plinth		1	19.08	0.45	0.10	0.86		
	Lintel		1	19.08	0.20	0.20	0.76		
	RCC roof slab		1	6.00	6.00	0.15	5.40		
	Chejjas		1	5.00	0.60	0.10	0.30		
	Concrete for Flatform		1	1.50	1.50	0.10	0.23		
			1	100.00	0.45	0.10	4.50		
							19.37	5535.32	**107235.00**
	Basic Rate	5222.00							
	Area Weightage @ 6%	313.32							
	Total	**5535.32**							
8	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, **Page No. 6 / Item No. 2.10 / PWD SR 2013-14**	Cum								
			Qty Vide Item No. 2				**26.34**	99.64	**2625.00**
	Basic Rate	94.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	5.64							
	Total	**99.64**							
	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 27 / Item No. 5.27 / PWD SR 2013-14**	Sqm							
	Long Wall		2	5.00		3.00	30.00		
	Short Wall		2	4.54		3.00	27.24		
	Parapet Wall		1	5.00		0.60	3.00		
			1	4.54		0.60	2.72		
	For Flat Form		3	9.00		1.20	32.40		
			3	6.00		1.20	21.60		
	Rising of Compound Wall		1	120.00		2.00	240.00		
							356.96		
	Deduct for Openings								
	Door		1	2.40		2.10	5.04		
	W		2	0.90		1.20	2.16		
	Lintel		1	19.08		0.20	3.82		
							-11.02		
							345.95	907.36	**313899.00**
	Basic Rate	856.00							
	Area Weightage @ 6%	51.36							
	Total	**907.36**							
10	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 TMT Bars 500 **Page No. 19/ Item No. 4.46.2 / PWD SR 2013-14**	Qtl							
	120 Kg / Cum		1.20	19.37			**23.25**	7312.94	**170007.00**
	Basic Rate	6899.00							
	Area Weightage @ 6%	413.94							
	Total	**7312.94**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
11	KSRB 10-2: Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75kg/sqm conforming admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junction of walls and slabs, (c) after two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d)	Sqm							
			1	6.00	6.00		36.00		
							36.00	146.28	**5266.00**
	Basic Rate	735.00							
	Area Weightage @ 6%	44.10							
	Total	**779.10**							
12	KSRB 15.3.13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 122 / Item No. 15.21 / PWD SR -2013-14**	Sqm							
	Hall		1	4.54	4.54		20.61		
							20.61	163.24	**3365.00**
	Basic Rate	154.00							
	Area Weightage @ 6%	9.24							
	Total	**163.24**							
13	KSRB 15.3.11 :Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. **Page No. 123 / Item No. 15.19 / PWD SR 2013-14 (Inside wall)**	Sqm							
	Inside Wall Hall		2	4.54		3.00	27.24		
			2	4.54		3.00	27.24		
	Stage		2	9.00		1.00	18.00		
			2	6.00		1.00	12.00		
							84.48		
	Deductions - For door		1	2.40		2.10	5.04		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Windows		2	0.90		1.20	2.16		
							7.20		
							2		
							3.60		
							80.88	199.28	**16118.00**
	Basic Rate	188.00							
	Area Weightage @ 6%	11.28							
	Total	**199.28**							
14	KSRB 15.7: Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications. **Page No. 124 / Item No. 15.33 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No. 12+13				**101.49**	19.08	**1936.00**
	Basic Rate	18.00							
	Area Weightage @ 6%	1.08							
	Total	**19.08**							
15	KSRB 15-3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonary including rounding off corners whereever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.**(P.No.123 / I.No.15.17 of PW, P&IWTD S.R 2013-14)**	Sqm							
			1	5.00		4.55	22.75		
			1	5.00		4.55	22.75		
			2	100.00		2.10	420.00		
							465.50		
	Deductions for Windows D		1	2.40		2.10	5.04		
	W		2	0.90		1.20	2.16		
							7.20		
							2		
							3.60		
							461.90	165.36	**76380.00**
	Basic Rate	156.00							
	Area Weightage @ 6%	9.36							
	Total	**165.36**							
16	KSRB 14.10.2 : Flooring with 25mm to 40mm thick polished **shahabad slabs** using mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab, including cost of materials, labour, curing, polishing complete as per specifications. **Page No. 112 / Item No. 14.16 / PWD SR 2013-14**	Sqm							
	Hall		1	4.54	4.54		20.61		
			2	4.54		0.15	1.36		
			2	4.54		0.15	1.36		
							23.34	1104.52	**25775.00**
	Basic Rate	1042.00							
	Area Weightage @ 6%	62.52							
	Total	**1104.52**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended **floors**, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 16 / Item No. 4.29 / PWD SR 2013-14**	Sqm							
			1	4.54	4.54		20.61		
			1	5.00	1.00		5.00		
			3	5.00	1.00		15.00		
							40.61	284.08	**11537.00**
	Basic Rate	268.00							
	Area Weightage @ 6%	16.08							
	Total	**284.08**							
18	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of **beams**, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 17 / Item No. 4.34 / PWD SR 2013-14**	Sqm							
	Tie beams		2	19.08		0.45	17.17		
	lintel sides		2	19.08		0.45	17.17		
	Plinth		2	19.08		0.20	7.63		
	For Roof Sides		2	6.00		0.15	1.80		
			2	6.00		0.15	1.80		
							45.58	239.56	**10918.00**
	Basic Rate	226.00							
	Area Weightage @ 6%	13.56							
	Total	**239.56**							
19	KSRB 4-6.6 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **columns**, pillars, piers, post and struts, circular or curved in plan including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 17 / Item No. 4.33 / PWD SR 2013-14**	Sqm							
	Columns		4	1.30	4.95		25.74		
							25.74	836.34	**21527.00**
	Basic Rate	789.00							
	Area Weightage @ 6%	47.34							
	Total	**836.34**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
20	Supply and fixing pressed steel door frames size 125x65 mm manufacture from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and shutters made out of seasoned honne wood, styles of 30mm, thick with lock rail of 160mm, width, top and side rails of 100mm, width width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be not proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years, this shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting wit enamel paint 2 coats over primer coat, cost of labour for all items of work, machinery, equipment	Sqm							
	MD		1	2.40		2.10	5.04		
							5.04	3710.00	**18698.00**
	Basic Rate	3500.00							
	Area Weightage @ 6%	210.00							
	Total	**3710.00**							
21	"Supplying and fixing pressed steel window frame of size 100x50mm manufacture from 1.25 mm thick carbon steel or imported steel strips with neat mitred joints at 900degree for window openings and shall be suitable to fix M.S grills as per design and drawings using 12mm dia roads at 100mm centre to centre horizontally and two members of M.S flats of 6mmx40mm size at 150mm apart, welded into a frame of 6mmx40mm size M.S flats with 16mm size lugs, and 8nos, of 100mm size hinger, 4nos of butt stay pins and 4nos, tower bolts and shutters half paneled and half glazed with shutters made out of seasoned honne wood, styles of 30mm thick and 100 mm width and rails of 30mm thick and 100 mm width and using 4mm thick pin headed glass and panel, filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be rot proof vermin proof, heat resistant guaranteed against	Sqm							
	Windows		2	0.90		1.20	2.16		
							2.16	4028.00	**8700.00**
	Basic Rate	3800.00							
	Area Weightage @ 6%	228.00							
	Total	**4028.00**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
22	KSRB 15.14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after througly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. **Page No. 126 / Item No. 15.49.1 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No.14				**101.49**	59.36	**6025.00**
	Basic Rate	56.00							
	Area Weightage @ 6%	3.36							
	Total	**59.36**							
23	KSRB 15-16 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to given an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. **with primer, Page No. 127 / Item No. 15.53.2 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No.15				**461.90**	78.44	**36231.00**
	Basic Rate	74.00							
	Area Weightage @ 6%	4.44							
	Total	**78.44**							
24	KSRB 8.6-5: Providing and fixing in wall surface 2.5 kg/sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes bends and offsets fixed with iron clamps, walls plugs, screws, including cost of materials, labour, complete as per specifications. **Page No. 52 / Item No. 8.16 / PWD SR 2013-14**	m							
			2	3.00			**6.00**	415.52	**2493.00**
	Basic Rate	392.00							
	Area Weightage @ 6%	23.52							
	Total	**415.52**							
25	KSRRB M3.1: laying reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in double row including fixing collar with cement morta 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications, A.1000 mm dia, **No. 223 / Item No. 34.4 PWD SR 2013-14**	M							
			3	3.00			**9.00**	19406.48	**174658.00**
	Basic Rate	18308.00							
	Area Weightage @ 6%	1098.48							
	Total	**19406.48**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
26	KSRB 13-1.6 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm dia nominal bore with fittings (medium grade weight 5.24 kg/mtr) B class including cost of all materials, labour, charges HOM of equipments and testing complete as per specifications. Specification No. KBS 13.2.14 / 13.8 **Page No. 94 / Item No. 13.6 / PWD SR 2013-14**	m							
			3	5.00			**15.00**	515.16	**7727.00**
	Basic Rate	486.00							
	Area Weightage @ 6%	29.16							
	Total	**515.16**							
27	KSRB 13-1.4 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 32mm dia nominal bore with fittings (medium grade weight 3.23 kg/mtr) **Page No. 94 / Item No. 13.4 / PWD SR 2013-14**	m							
			1	6.00			**6.00**	354.04	**2124.00**
	Basic Rate	334.00							
	Area Weightage @ 6%	20.04							
	Total	**354.04**							
28	KSRB 13-6.2.4: Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO. KBS 13.2.2 / 13.3 **Page No. 97 / Item No. 13.29 / PWD SR 2013-14**	Each							
			3	4.00			**12.00**	167.48	**2010.00**
	Basic Rate	158.00							
	Area Weightage @ 6%	9.48							
	Total	**167.48**							
29	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.48, I. 9.4) PRED.SR 2012-13**	Each BW							
			2				**2**	1882.00	**3764.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
30	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**	Rmtr							
	0 to 50 m		2	50.00			**100.00**	306.00	**30600.00**
	50 to 100 m		2	50.00			**100.00**	400.00	**40000.00**
	100 to 150 m		2	50.00			**100.00**	445.00	**44500.00**
	150 to 200 m		2	50.00			**100.00**	470.00	**47000.00**
	200 to 250 m		2	50.00			**100.00**	544.00	**54400.00**
	250 to 300 m		2	50.00			**100.00**	583.00	**58300.00**
31	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty **P. iii, I No. 84 PRED SR 2012-13**	Rmtr							
			2	60.00			**120.00**	1325.00	**159000.00**
32	Providing 250mm dia PVC Pipe 6kg/cm **SE PRED Approved Rate**	Rmtr							
			2	18.00			**36.00**	754.47	**27161.00**
33	Providing and fixing 160mm Borewell Cap **P. iii, I No. 85**	Each							
			2				**2**	100.00	**200.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
34	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 20 stage. **SE RDED Approved Rate PWD SR 2013-14 P. XXXXIII Sl No. 23 CRI Pumps including of all taxes**	No							
	12.5 HP 20 Stage		2				**2**	60084.36	**120169.00**
35	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008	Rmtr							
			2	250.00			**500.00**	375.00	**187500.00**
36	Heavy Duty Collar 50 mm dia	Nos	84				**84**	130.00	**10920.00**
37	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A KPWD Electrical SR 2010-11**	Mtr							
			2x2	260.00			**1040.00**	151.00	**157040.00**
38	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) **(As per rate approved KUWS & DB for year 2008-09**	No							
			2				**2**	3000.00	**6000.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
39	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 32/ I No. 2/f KPWD Electrical SR 2010-11**	Each							
			2				**2**	285.00	**570.00**
40	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.**P No. 68/ I No. 4(d) 4 core 16 Sqmm KPWD Electrical SR 2010-11**	Mtr							
			2	25.00			**50.00**	150.00	**7500.00**
41	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **P No. 69 / I No. Ia In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2010-11**	Mtr							
			2	25.00			**50.00**	8.00	**400.00**
42	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB **1-2 P-7) P No. 70/ I. No. 6-c KPWD Electrical SR 2010-11**	Mtr							
	For Cutting Road Surface		2	20.00			**40.00**	60.00	**2400.00**
43	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 70/ I No.9-A KPWD Electrical SR 2010-11**	Mtr							
	40mm dia GI pipe		2	4.00			**8.00**	240.00	**1920.00**
44	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 70/ I No. 10-b KPWD Electrical SR 2010-11**	No.							
	16Sqmm		2				**2.00**	260.00	**520.00**
45	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, **(P No.68, I No. 1) KPWD Electrical SR 2010-11**	No							
			2				**2**	1950.00	**3900.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
46	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11**	No.							
	32 Amps		2x6				**12**	100.00	**1200.00**
47	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No. 100 Item No. 13.55 / PWD SR**	Nos							
			2				**2**	1574.10	**3148.00**
	Basic Rate	1485.00							
	Area Weightage @ 6%	89.10							
	Total	**1574.10**							
48	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No. 104 / I. No. 13.81.3 PWD SR 2013-14**	No							
	50mm dia		2				**2**	222.60	**445.00**
	Basic Rate	210.00							
	Area Weightage @ 6%	12.60							
	Total	**222.60**							
49	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete	No							
			2	4.00			**8**	80.00	**640.00**
50	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications	No							
			2				**2**	350.00	**700.00**
51	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	No							
			2				**2**	1000.00	**2000.00**
52	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			1	120.00	0.45	0.75	**40.50**	188.00	**7614.00**
	Basic Rate	188.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
53	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	120.00			**120.00**	157.00	**18840.00**
54	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum							
			Qty. Vide Item No. 24				**40.50**	61.00	**2471.00**
	Basic Rate	61.00							
55	KSRB 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6/13.3 **P. 98 / I.13.37 PWD SR - 2013-14**	Each							
			4				**4**	2109.40	**8438.00**
	Basic Rate	1990.00							
	Area Weightage @ 6%	119.40							
	Total	**2109.40**							
56	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 41, I. No. 38B KPWD Electrical SR 2010-11**	Sq.Cm							
	16SWG		2x2	120.00	60.00		28800.00		
			2	360.00	25.00		18000.00		
							46800.00	0.33	**15444.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
57	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **15HP to 30 HP Star Delta Starter SERDED Rate**	No.	2				2	11000.00	**22000.00**
58	1031 - Hire Charges of J.C.B Excavator including Operator and Fuel **P. XXXXVII / I. 23 PWD SR 2013-14**	Day	25				**25**	6720.00	**168000.00**
59	1024 - Hire Charges of Tractor 50 HP including Operator and Fuel **P. XXXXVII / I. 20 PWD SR 2013-14**	Day	40				**40**	2240.00	**89600.00**
60	Engaging Causal Labours (Unskilled mazdoor Heavy) **Page No. LV PWD SR 2013-14**	Nos	15x30				**450**	193.38	**87021.00**
61	BESCOM Deposit for Engersation	L/S	2	10500.00					**21000.00**
62	Electrificattion of Building	L/S							**20000.00**
63	Water Suppy and Sanitary for Building	L/S							**65000.00**
64	Sub Total								**2678296.00**
65	KRIDL Charges @ 11%								**294613.00**
66	QC Charges @ 1%								**26783.00**
67	Miscesalaneous Charges								**308.00**
								Total	**3000000.00**

Technical Sanction for Rs. Thirty Lakhs only

290/13-14, 03/03/2014

Registered as Bill No: ..... Dated ..... Subject to conditions contained enclosed memo. No: 290/13-14, 03/03/2014

AEE/JE

EE (BTP.Div.)

(Rupees Thirty Lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.

2 This estimate is prepared as per C.S.R. of PWD 2013-14, PWD Elecrical 2010-11, PRED 2012-13 & SE-RDED approved Rate.

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVELY SANCTIONED FOR Rs 30.00 lakhs

Rupees Thirty lakhs only

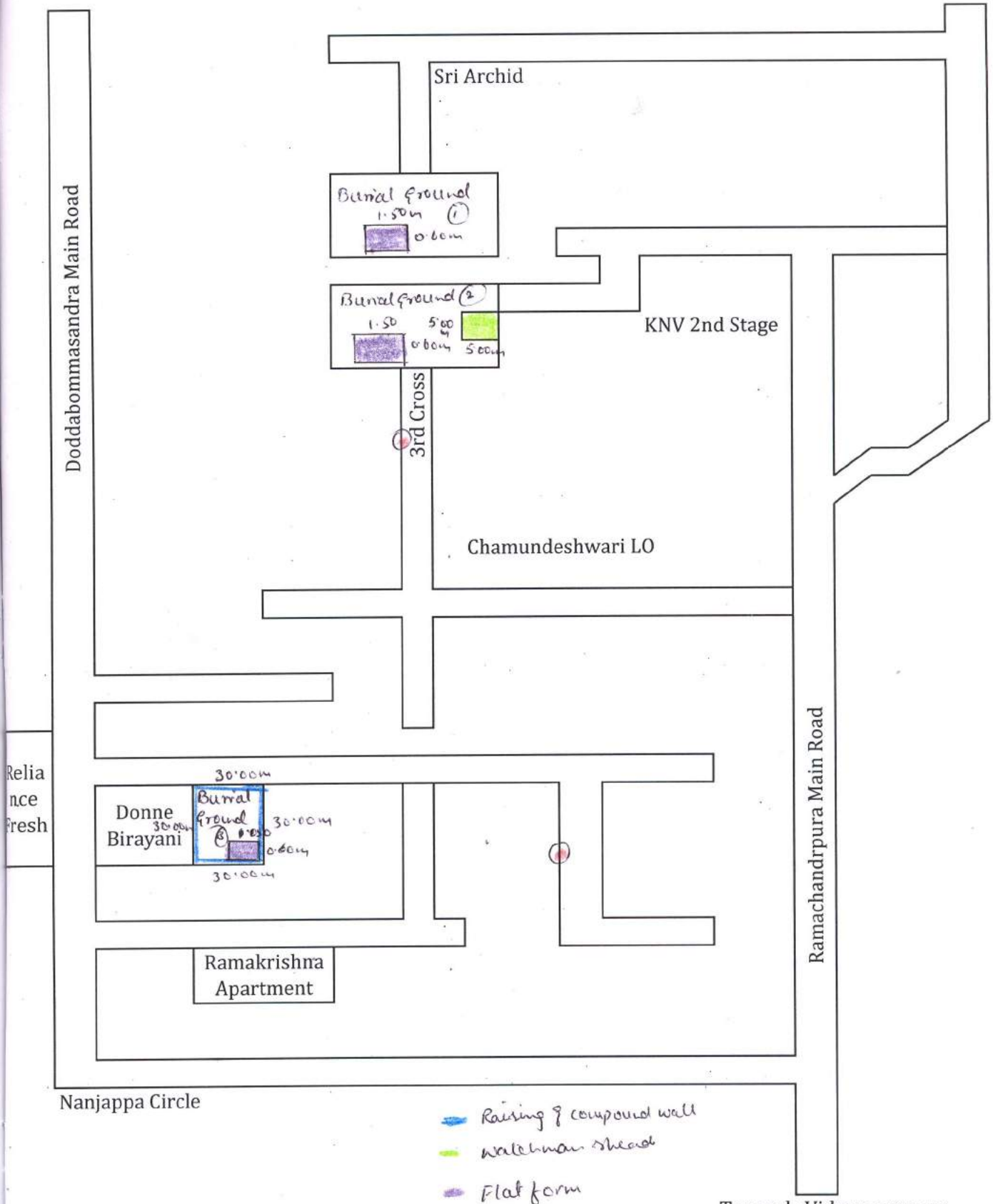
Under P-0190

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Registered as Bill No: ..... 3.....9..... Subject to conditions contained in enclosed memo ..... 19/.... Dt ..... sanctioned Addl Com (Y2) Pap. 911/13-14 dated 24/2/2013 Rs 30.00 lakhs

Addl Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92

Sketch Showing the Work For Improvements to 3 Burial Grounds in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.



Assistant Engineer
Ward No. 10